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Weather Tables Rothamsted

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ROTHAMSTED WEATHER 1979-80

Latitude 51° 48' 30" N; Longitude 0° 21' 10" W; Altitude 128 m

	1979			1980												
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
TEMPERATURE (°C)																
Mean screen maximum	14.9	9.4	7.7	4.4	8.6	7.6	12.6	15.6	18.4	18.8	20.7	18.7	12.3	8.3	7.5	12.8
Difference from average	+1.6	+0.5	+1.2	-1.3	+2.2	-1.5	+0.5	-0.3	-0.5	-1.8	+0.3	+1.0	-1.1	-0.6	+1.0	-0.2
Mean screen minimum	7.1	2.4	2.7	-0.9	1.6	1.1	3.4	5.2	9.2	9.9	11.4	10.3	4.7	3.1	1.4	5.0
Difference from average	+1.2	-0.3	+1.7	-1.0	+1.2	-0.2	+0.2	-1.0	0.0	-1.2	+0.5	+1.2	-1.2	+0.4	+0.4	-0.1
Soil at 10 cm	10.1	5.2	4.6	1.0	4.1	3.6	7.2	10.8	14.5	14.4	15.9	13.8	7.9	5.3	3.6	8.5
Dew point	9.4	4.5	3.0	0.1	3.7	2.2	3.5	5.3	10.1	11.1	12.4	11.8	6.5	3.6	2.9	6.1
No. of days with ground frost	9	18	15	28	19	20	20	8	1	0	1	0	11	18	22	148
RADIATION																
Sunshine (h per month)	117	63	52	71	54	83	149	213	178	160	154	143	129	68	58	1460
Difference from average	+14	+1	+7	+20	-13	-32	-1	+19	-24	-31	-26	-1	+26	+6	+13	-44
Mean daily radiation (MJ m ⁻² day ⁻¹)	6.9	3.1	2.1	2.9	4.3	6.8	12.6	17.7	18.0	14.9	13.4	10.9	6.7	3.1	2.1	9.5
WIND (km day⁻¹)																
Wind run at 2 m	158	217	294	206	191	254	228	229	184	177	172	178	219	323	314	223
WATER (mm per month)																
Rainfall (5 inch walled gauge)	80	52	129	33	44	79	29	19	70	81	49	24	97	45	41	611
Difference from average	+20	-20	+63	-31	-9	+30	-18	-34	+14	+29	-13	-35	+37	-26	-27	-83
Rain days	15	17	20	13	14	20	10	6	19	16	8	11	18	18	17	170
Drainage through 50 cm bare soil	44	41	109	27	36	50	15	TR	2	33	17	TR	60	27	35	302
Open water (tank) evaporation	39	11	10	4	14	28	63	101	91	76	93	69	38	12	8	597
Potential transpiration	17	5	6	1	11	26	61	91	94	82	75	51	20	8	3	523

NOTES ON THE TABLE

1. Except for potential evaporation, all quantities are measured.
2. Drainage and evaporation are measured in inches.
3. Drainage is through 50 cm bare undisturbed soil.
4. Long period averages are for different periods: air temperatures 1878-1979; sunshine 1892-1979; rain 1948-79.